

Ares I Crew Launch Vehicle

- ◆ ~25-mT payload capacity
- ◆ 2-Mlb gross liftoff weight
- ◆ 309 ft in length

First Stage

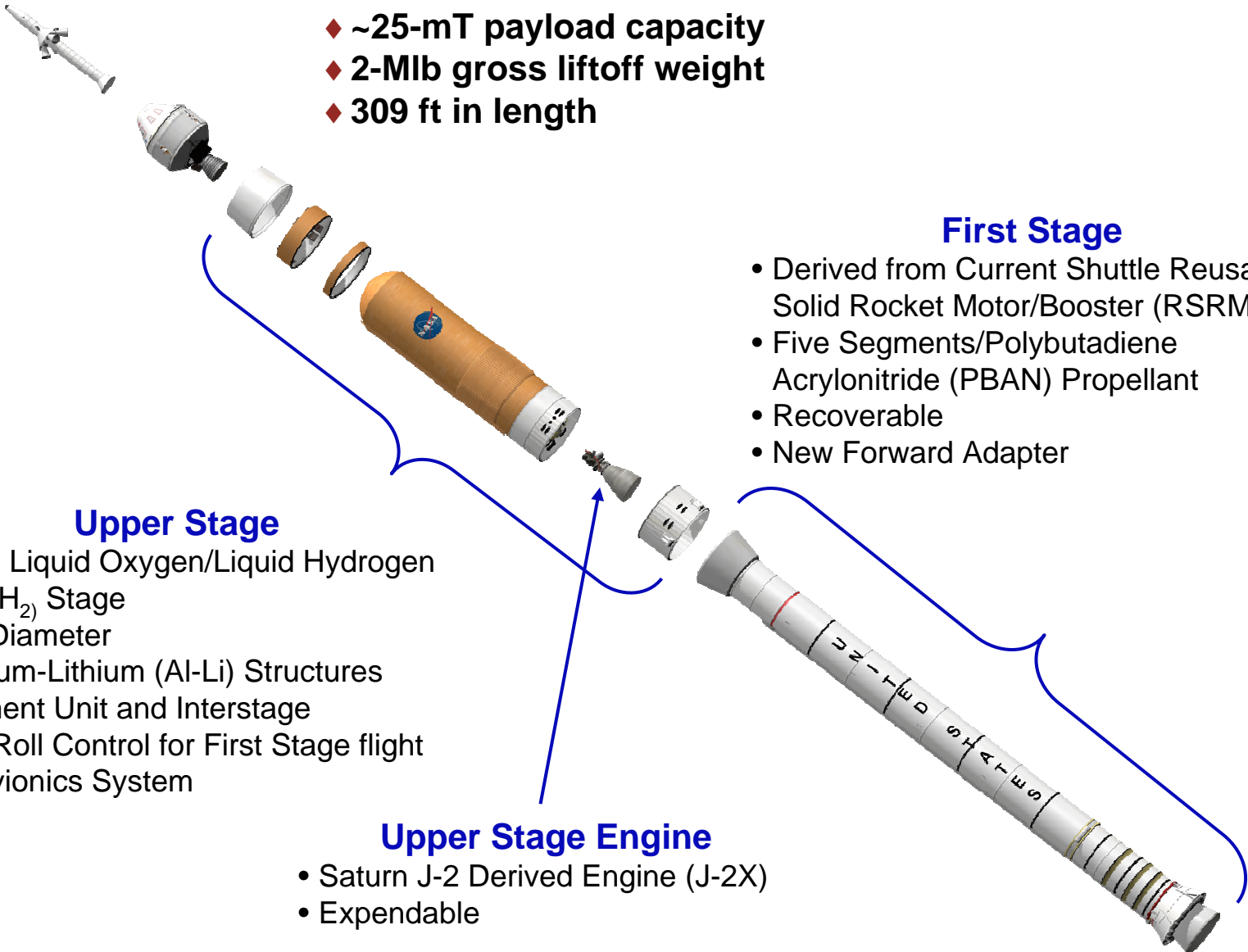
- Derived from Current Shuttle Reusable Solid Rocket Motor/Booster (RSRM/B)
- Five Segments/Polybutadiene Acrylonitrile (PBAN) Propellant
- Recoverable
- New Forward Adapter

Upper Stage

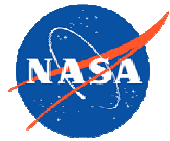
- 280-klb Liquid Oxygen/Liquid Hydrogen (LOX/LH₂) Stage
- 5.5-m Diameter
- Aluminum-Lithium (Al-Li) Structures
- Instrument Unit and Interstage
- RCS / Roll Control for First Stage flight
- CLV Avionics System

Upper Stage Engine

- Saturn J-2 Derived Engine (J-2X)
- Expendable



Ares V Cargo Launch Vehicle



- ◆ ~130-mT payload capacity
- ◆ 7.4-Mlb gross liftoff weight
- ◆ 358 ft in length

